

**DATA SHEET**

Pluggable Multi-Pole SPD  
**ProTec T2-ADV 3+0**  
 Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards  
 Network Systems: TN-C  
 Mode of Protection: L-PEN  
 Surge Ratings:  $I_n = 20\text{ kA (8/20 }\mu\text{s)}$   
 $I_{max} = 50\text{ kA (8/20 }\mu\text{s)}$   
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA  
 Protective Elements: High Energy MOV  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012  
 UL 1449 4th Edition

**Technical Data**

**ProTec T2-ADV-xxx-3+0(-R)**

		150	300	350	480
<b>IEC Electrical</b>					
Nominal AC Voltage (50/60Hz)	$U_o/U_n$	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	$U_c$	150V	300V	350V	480V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$	50kA	50kA	50kA	50kA
Voltage Protection Level	$U_p$	1000V	1300V	1700V	2000V
Response Time	$t_A$	< 25 ns			
Back-Up Fuse (max)		160A gG			
Short-Circuit Current Rating (AC)	$I_{SCCR}$	50kA			
TOV Withstand 5s	$U_T$	229V	337V	403V	581V
TOV 120min	$U_T$	229V	442V	528V	762V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1			

**UL Electrical**

Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V
Voltage Protection Rating	VPR	600V	900V	1200V	1500V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	200kA	150kA	200kA	200kA

**Mechanical & Environmental**

Operating Temperature Range	$T_a$	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000m]			
Terminal Screw Torque	$M_{max}$	39.9 lbf-in [4.5Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm <sup>2</sup> (Solid)			

**Order Information**

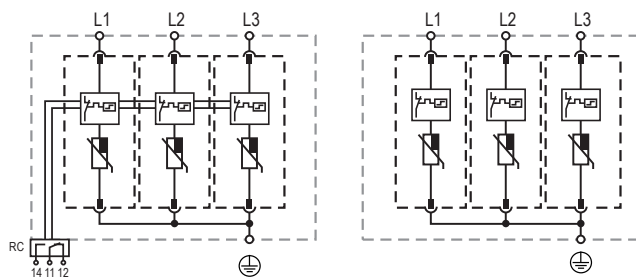
Order Code	150	300	350	480
ProTec T2-ADV-xxx-3+0	59.0228	59.0230	59.0232	59.0234
ProTec T2-ADV-xxx-3+0-R (with remote contacts)	59.0229	59.0231	59.0233	59.0235
ProTec T2-ADV-xxx-P	59.0203	59.0204	59.0205	59.0206

## ProTec T2-ADV 3+0

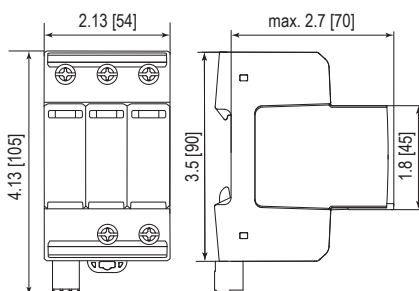
### Internal Configuration

#### Legend

- L Line
- ⊕ Protective Earth
- RC Remote Contacts Optional



### Dimensions & Packaging

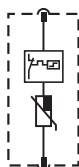


#### Dimensions & Packaging

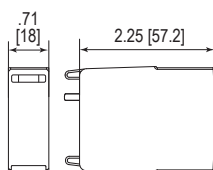
		150	300	350	480
Single Unit Weight	pounds	.787	.833	.866	.899
	grams	357	378	393	408
		<b>150</b>	<b>300</b>	<b>350</b>	<b>480</b>
Single Unit Weight	pounds	.809	.855	.888	.921
	grams	367	388	403	418
Single Unit DIN 43880 Dimension		3 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		5 Units			

### Plug Internal Configuration

#### ProTec T2-ADV-xxx-P



### Dimensions & Packaging



#### Dimensions & Packaging

		150	300	350	480
Single Unit Weight	pounds	.127	.143	.154	.165
	grams	58	65	70	75
Single Unit DIN 43880 Dimension		1 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		24 Units			

inches  
[mm]

Information contained in this document is subject to change at any time without notice.

